

Hyundai Elantra GT 2012-up CN-M5

Installation manual

Caution – Documentation is an aid to successful installation. No liability is assumed for incorrect installation. If unsure of expertise required, please consult a qualified installation tech.



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- Follow installation manual instructions carefully. Installer must be careful to not cause interference between Navigator System cabling and active / passive car safety device (Ex: Air bags, seat belts, indicators, etc...)
- Turn OFF the radio.
- Before any attempt of component removal, the installer must disconnect the vehicle battery and isolate the ends of the cable.
- Do not attempt this installation operation if there are missing components. Please check the bill of materials carefully to ensure the kit is complete.
- Installation requires careful attention. If you have concerns about your abilities to perform delicate operations, then do not begin the installation.
- The car must be secured to not move during installation. Parking brake must be engaged at all times.
- Operation should be made in a clean, safe and well ventilated environment without trip hazards and slippery floors.
- Do not install by yourself if you do not have qualifications and/or tools to perform the retrofit. You may damage the car's components and/or the Navigator if not professionally installed.
- Poor installation can result in poor performance, personal injuries and will immediately void the factory warranty.
- Do not install the Navigator in a position that blocks the driver's view or hinders safe vehicle operation.

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Caution

Installation Time is around **2 hours** with additional time required for options installation

Do NOT RUSH and if issues occur contact technical support

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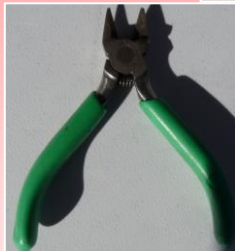
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Tools required for successful install -#1 = Patience!!!



Shop Towels & Alcohol

Philips #2 screwdriver magnetic
Wide flat blade screwdriver
Masking Tape



Gloves

3M Industrial double sided tape
Knife
Side cutters



Electrical tape

Wire strippers

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Bill of materials



Aux
cable



Main I/O 1
Cable

Keypad
Cable (**Pre-
installed**)



Audio Patch
Cord



Main I/O 2
Cable

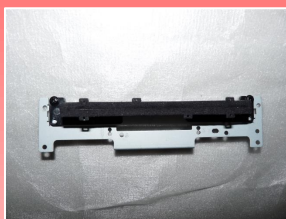


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Bill of materials



Radio face plate



TRIP Serial cable



Radio
securing
Brackets

Flat ribbon
rubber block



Mini Speaker
with 1 screw



GPS
antenna



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Bill of materials



Main
Touchscreen
(Pre-installed in
fascia Molding)

Fascia
Molding



SD Card to
USB
adapter



TRIP Module
with 2 screws

External USB &
SD Card Box (SD
Card already
inserted)



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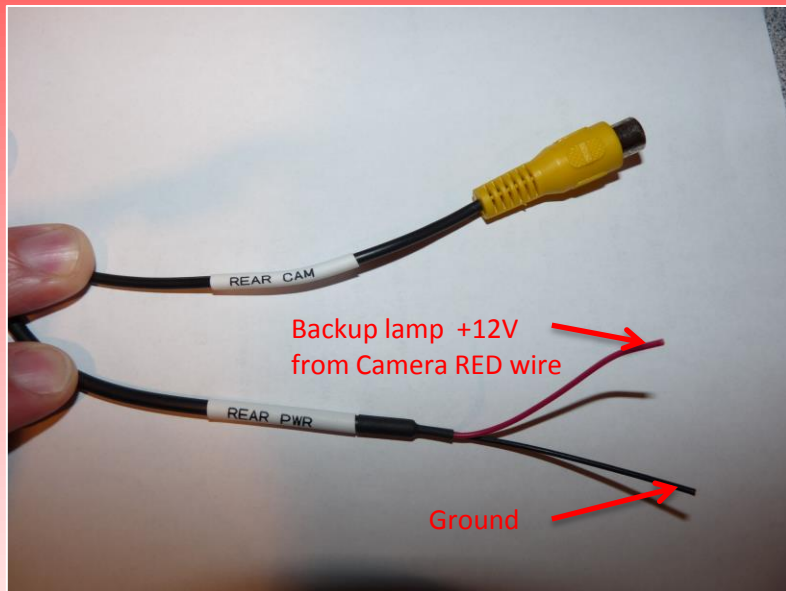
Section 3

System Cable Connections and Identification

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Rear Backup Camera
Cable - Main I/O 1

GPS Antenna Connection
– Main I/O 1



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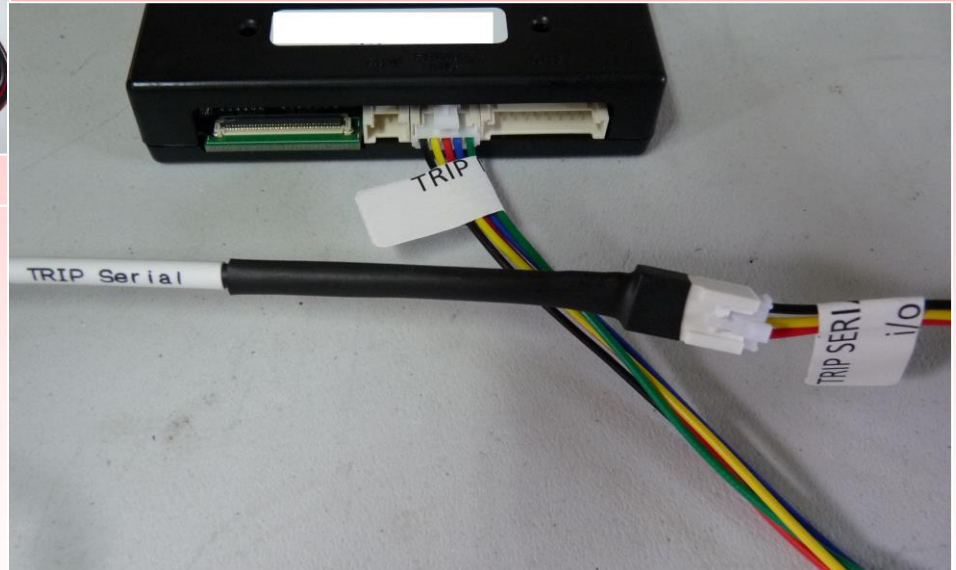
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External Speaker
Connection – Main I/O 1

TRIP Serial Cable connection:

- 5 Pin **to** TRIP Module
- 3 Pin(Yellow, Red and Black) **to** MAIN I/O 1 Trip Serial cable
- 2 Pin(Blue and Green) **to** Audio Patch Cord



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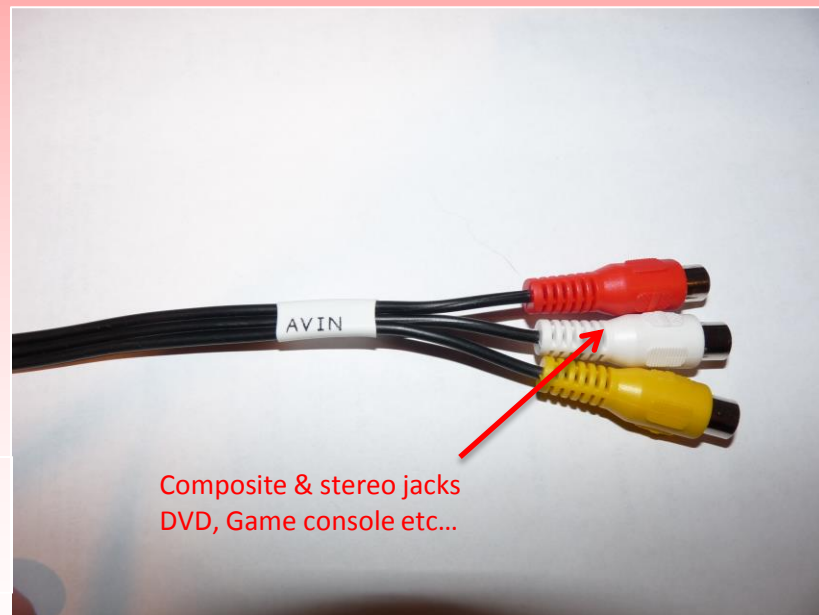
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AUX Cable connection
– Main I/O 1

To Audio Patch cord AUX IN (see next page)



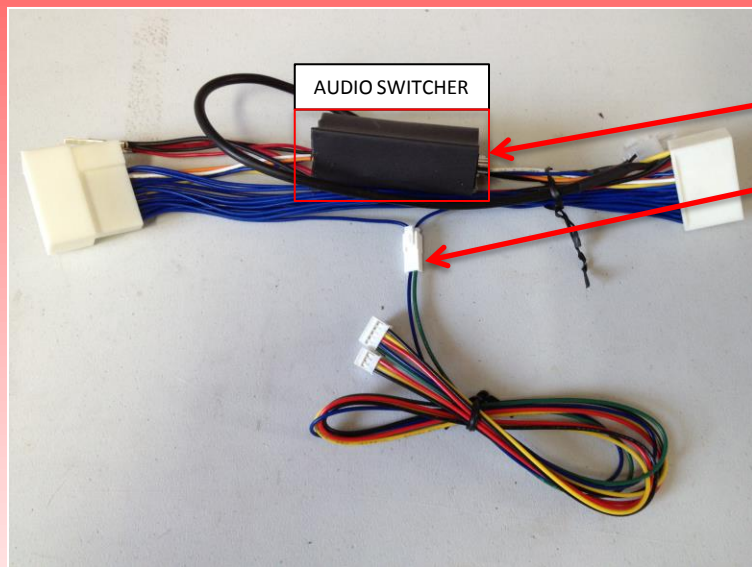
AV In connection –
Main I/O 1 (optional)

Composite & stereo jacks
DVD, Game console etc...

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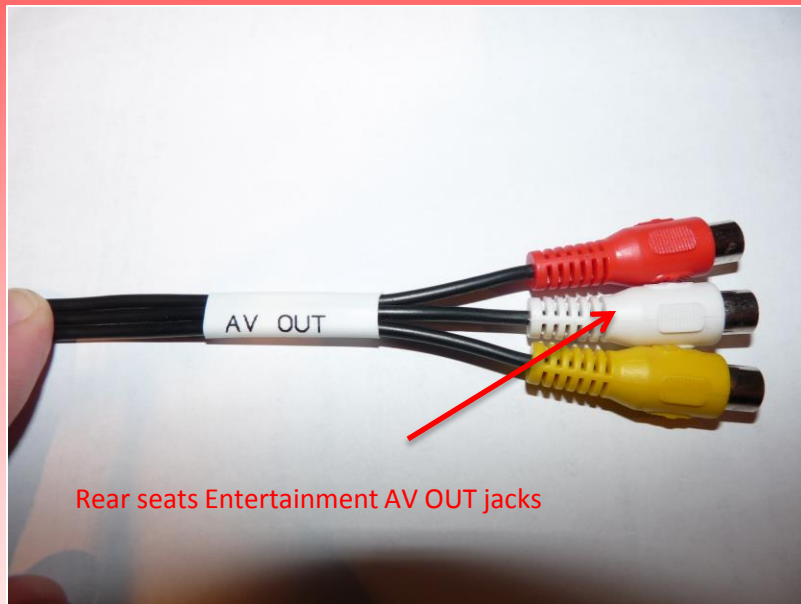
Audio Patch cord:

- AUX IN (previous page) **to** Audio Switcher input jack
- Steering wheel control wires (2 pin from TRIP SERIAL Cable (P:12).

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AV Out Connection – Main I/O 2

Note: Not required to connect to the device if AV OUT, IR Remote Control or Traffic tuner are not used.

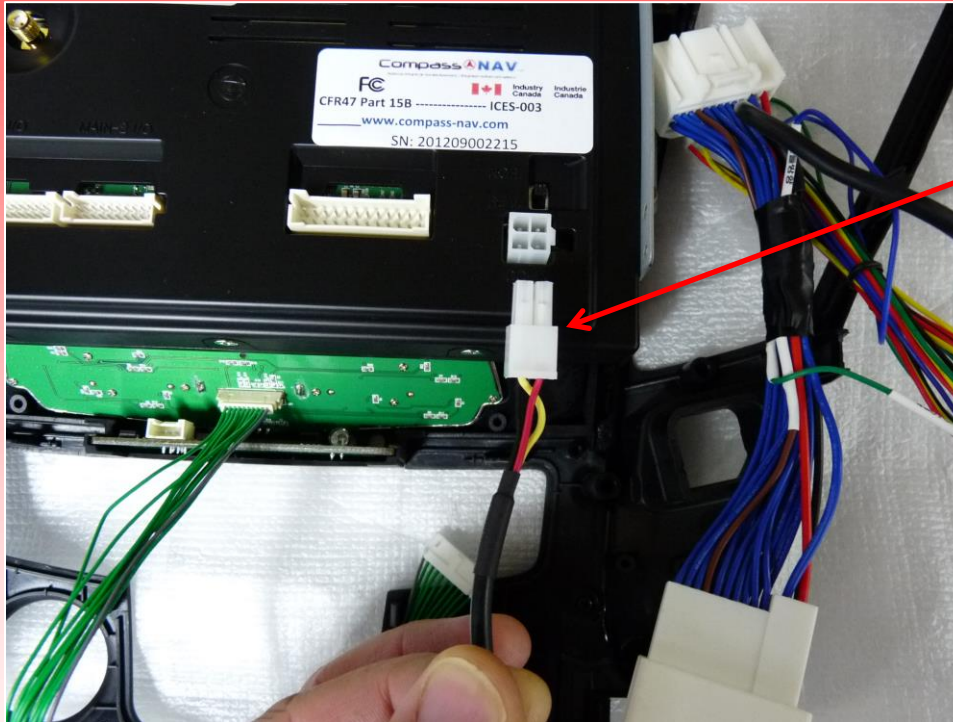
IR Sensor and Remote –
Main I/O 2 (optional)



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Power connector for the CN-M5 Navigator coming from the **Audio Patch cord**

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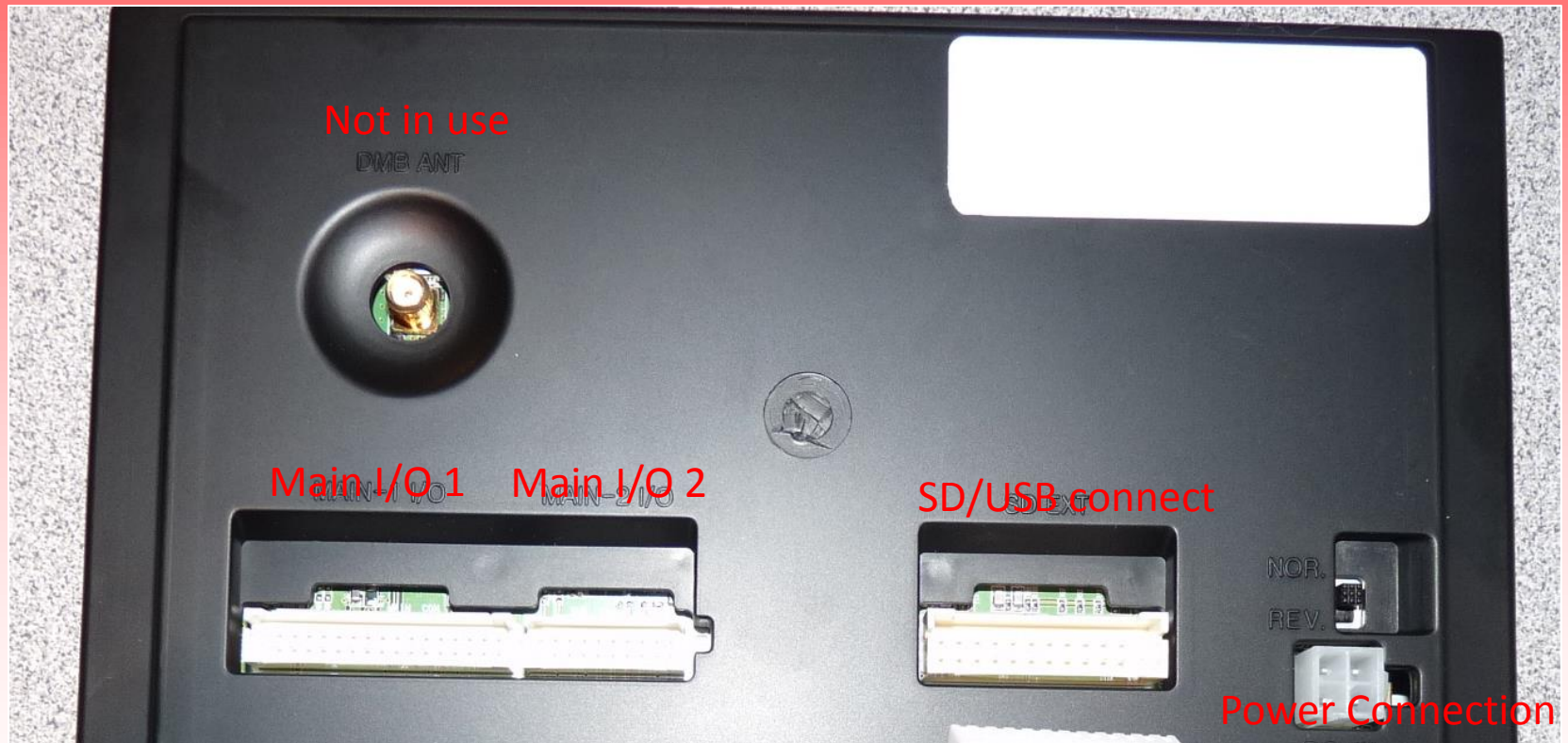
Section 4

Touchscreen Connection identification

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SD/USB connection
box to SD EXT
connection

Main I/O Connection #1



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Main I/O Connection #2

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Section 5

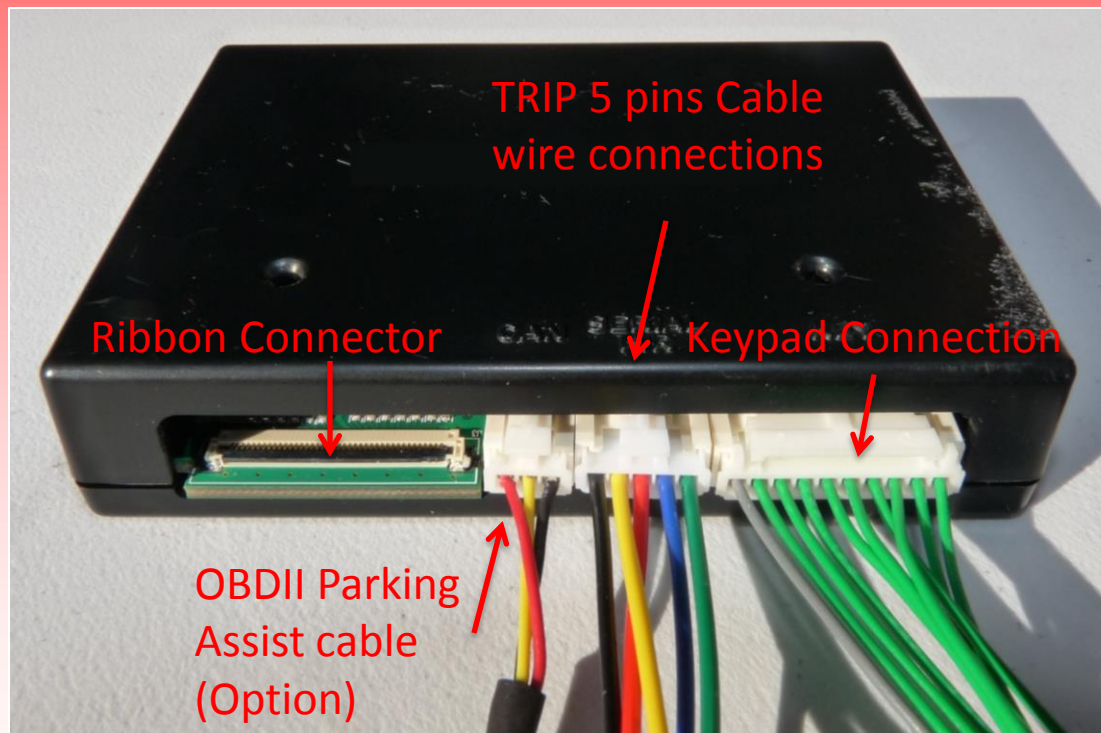
Trip Module Connections and ports identification

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Trip Module Connections/Cable identification

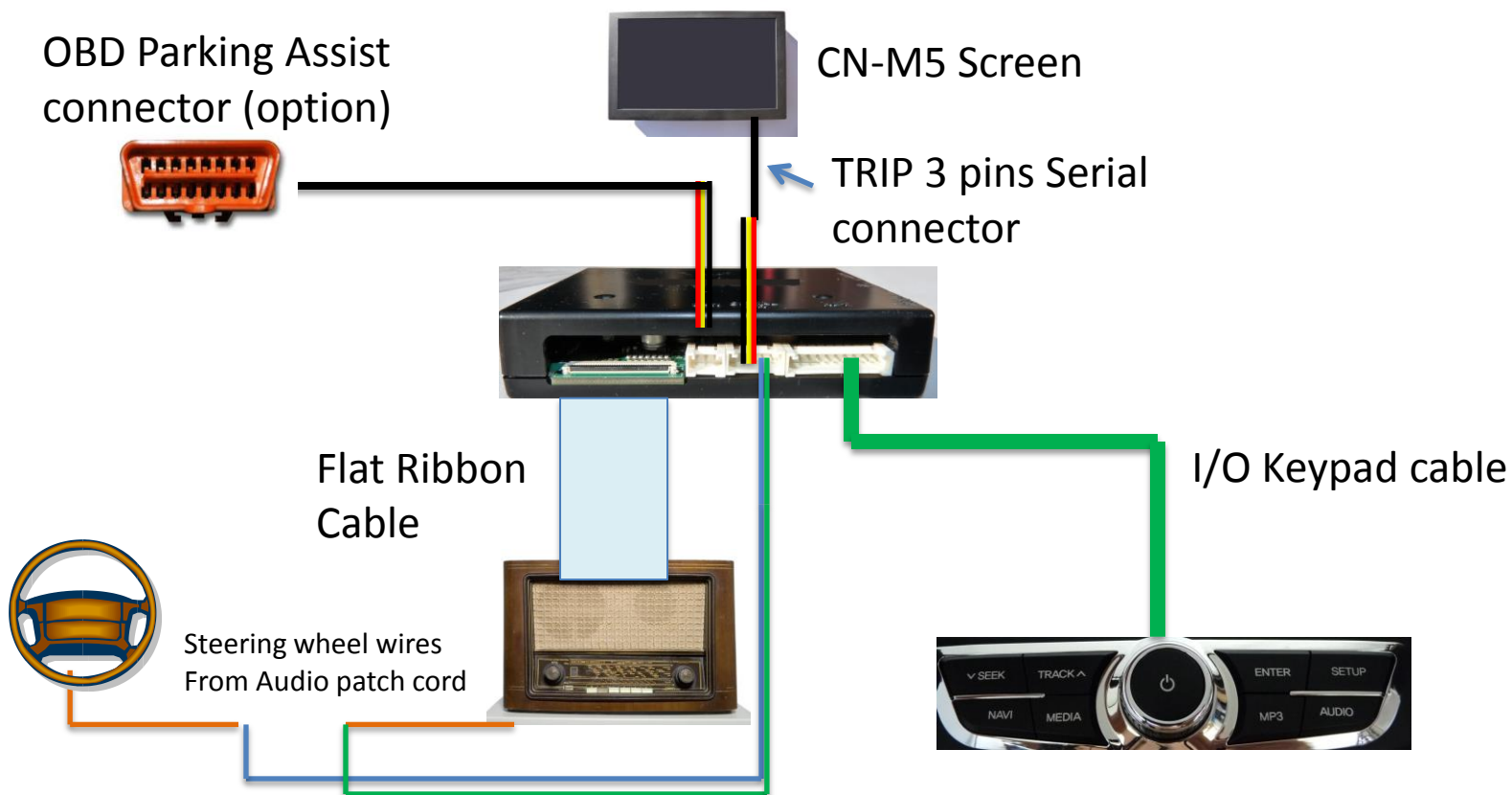


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TRIP module schematic connections



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Section 6

Vehicle Preparation

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Identify the molding to be removed. Protect the area with masking tape if needed. Carefully pry away the trim piece straight up starting at the bottom of the trim to gain enough to begin removing by hand.

Insert a protected flat tool blade between the trim and the console where you see a small gap and pry upwards

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When removing the trim piece it needs to be lifted vertically and pivot slightly to avoid damage. Do not force it, just carefully ease it.

Store these trim pieces carefully to avoid damage. Repeat the process for the other side.



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Proceed with the A/C control module by removing the four (4) Phillips screws, 2 on each side and reserve.

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Gently ease the A/C control module forward. 2 clips at the bottom of the module needs to be disengaged by grabbing the module at the bottom and pulling forward too.

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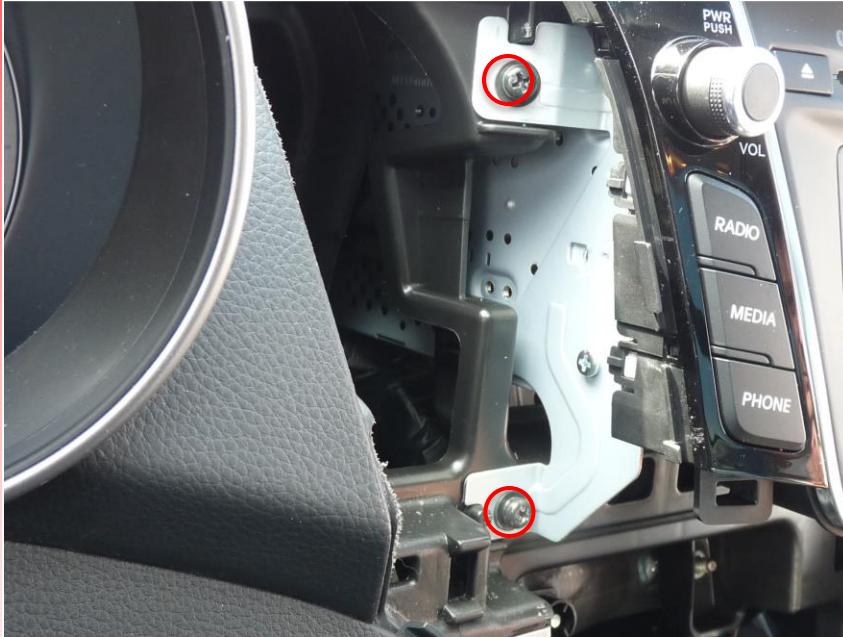
Once the back of the A/C control is exposed, disconnected the controls multi-way connectors (3) by pressing the locking tabs and pulling the connectors.

Reserve the A/C control module for its retrofit later.

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Once both trim pieces are removed , the radio securing screws are exposed. Remove both screws on both sides and reserve.

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Gently ease the radio forward to expose the rear end of the radio.

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Disconnect the **FM** and **XM** antenna from the rear of the radio. Caution, press down the locking tab after the **pink** plastic to disengage the XM antenna. A little flat screw driver may help.

To free the radio completely disconnect the 2 white multi-way connectors on the rear of the radio. Pressing the top locking tab allows the connectors to be removed from the back. Reserve the radio for its retrofit later.

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Section 7

Radio Preparation

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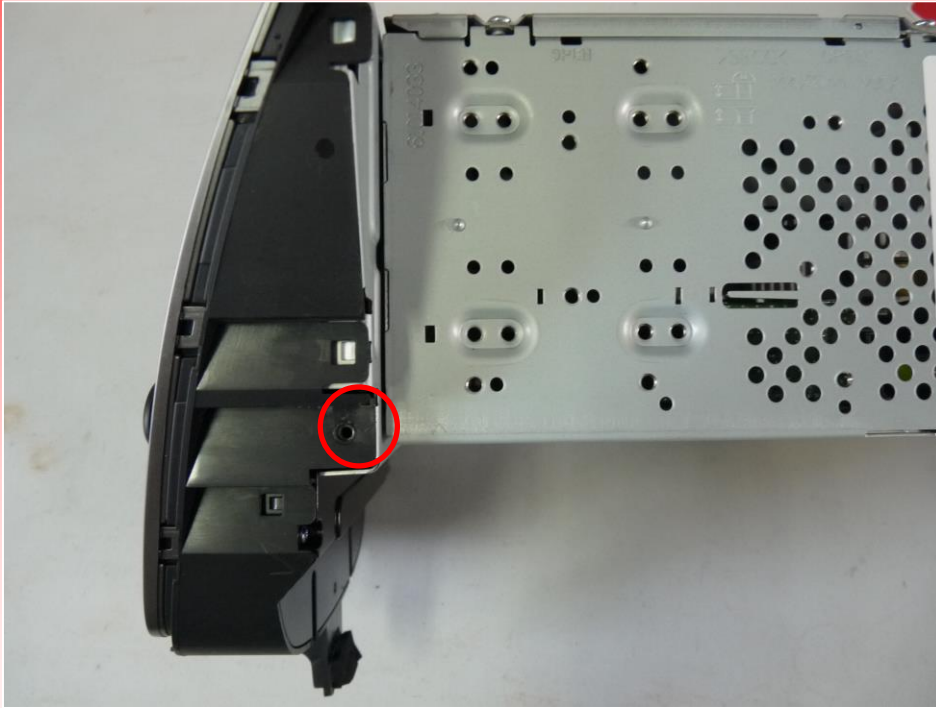
Remove existing retaining brackets using a Phillips head screwdriver. Secure the 6 screws removed to be reused later.

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Radio Preparation



Remove the front panel retaining screw as shown. Repeat for the other side of the radio.

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To detach the front panel completely from the radio, there are 8 retaining tabs that retain the radio panel in (2 on bottom, 2 on top and 2 either side) . GENTLY lift these up a little (DO NOT SNAP THEM OFF) and pry the radio fascia clear enough to allow access to the flat ribbon on the rear.

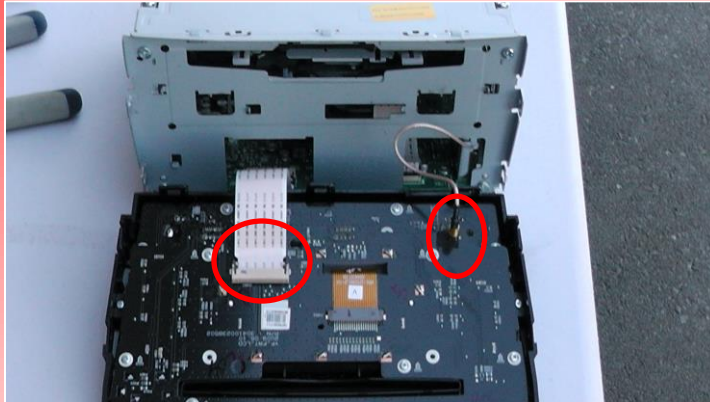
The help of a second or third flat screw driver may help to maintain the tabs released while unclipping the others.



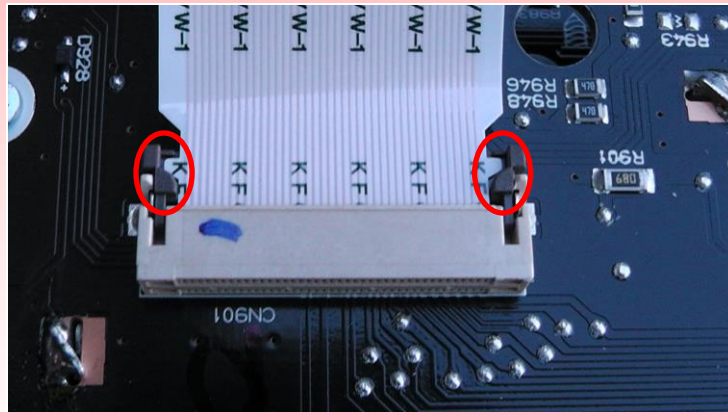
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Once the panel is free of the chassis, we need to remove the ribbon cable from the radio face plate.

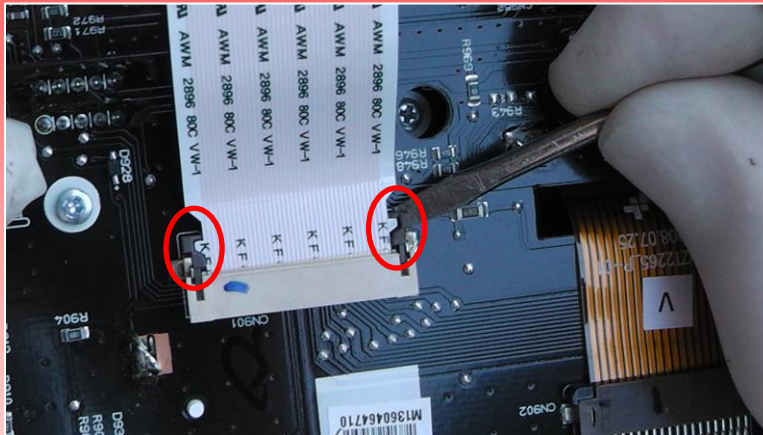


Notice the ribbon cable connection. There are locking tab cutouts on the ribbon cable to ensure the cable stays in place.

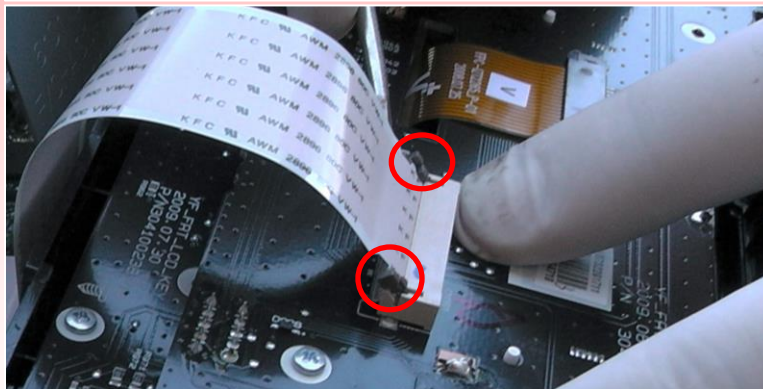
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A little pressure is needed from a screwdriver to lift up the brown locking tab to allow the ribbon to freely be disconnected. **Be gentle to avoid damaging the brown locking tab**

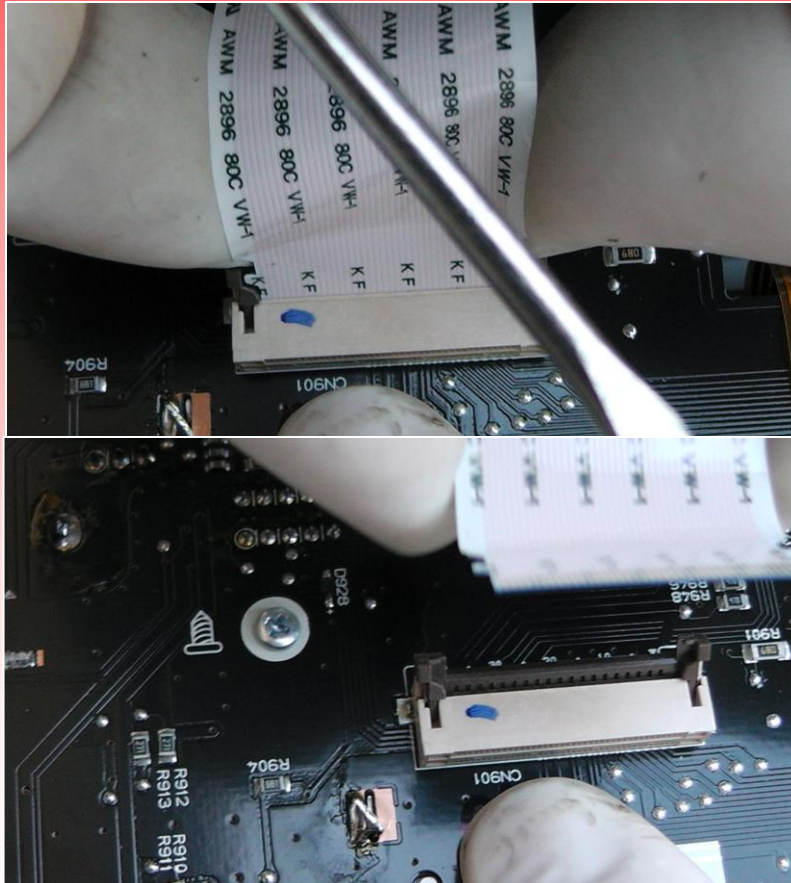


Notice the red circles. The ribbon needs to be disengaged from the unlocked brown locking tab, to free it from the beige connector. Separate the white end from the lock by lifting gently. **DO NOT PULL HARD**

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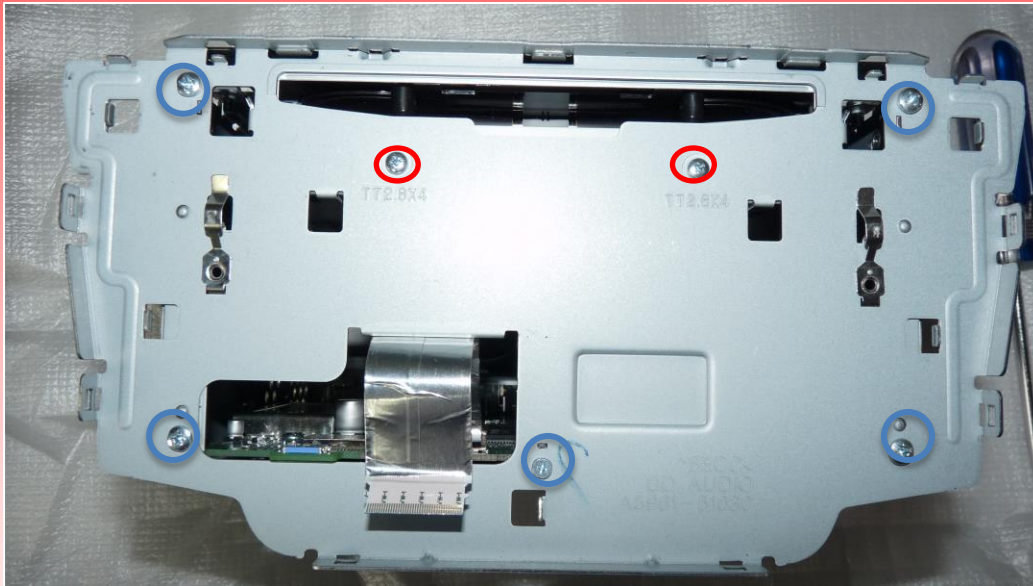
Once the ribbon disengages from the brown locking tabs gently remove the ribbon cable from the beige connector

Ribbon Cable disconnected – AT LAST!

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Remove the 2 screws holding the CD player as indicated in red and save these separately because they are smaller. Then remove the 5 screw surrounding the face plate

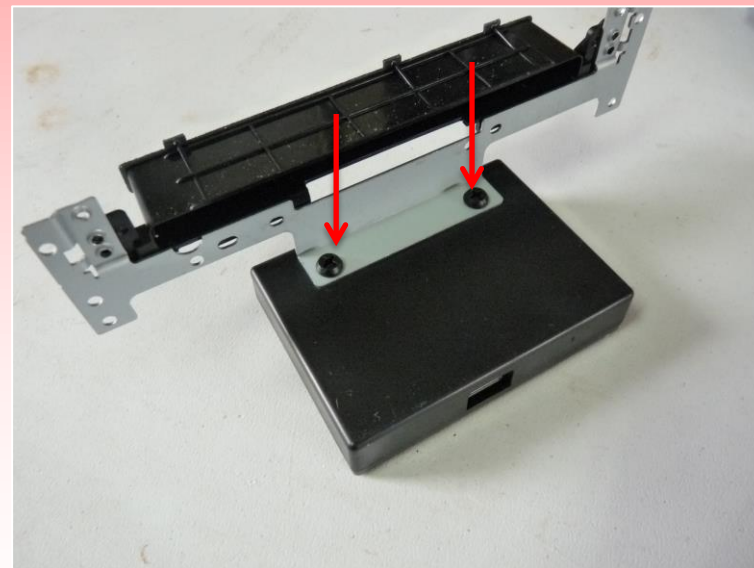
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Assemble the trip module with the supplied screws as indicated. The connector must face the face plate with the flat ribbon connector located at the left



TRIP module correctly installed

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Run the flat ribbon thru the new face plate carefully. Make sure to not bend the flat ribbon.

Then assemble the new face plate and locate it using the embosses circled. Screw the face plate (3 screws) starting by the opposite corners to make sure the radio body is square.

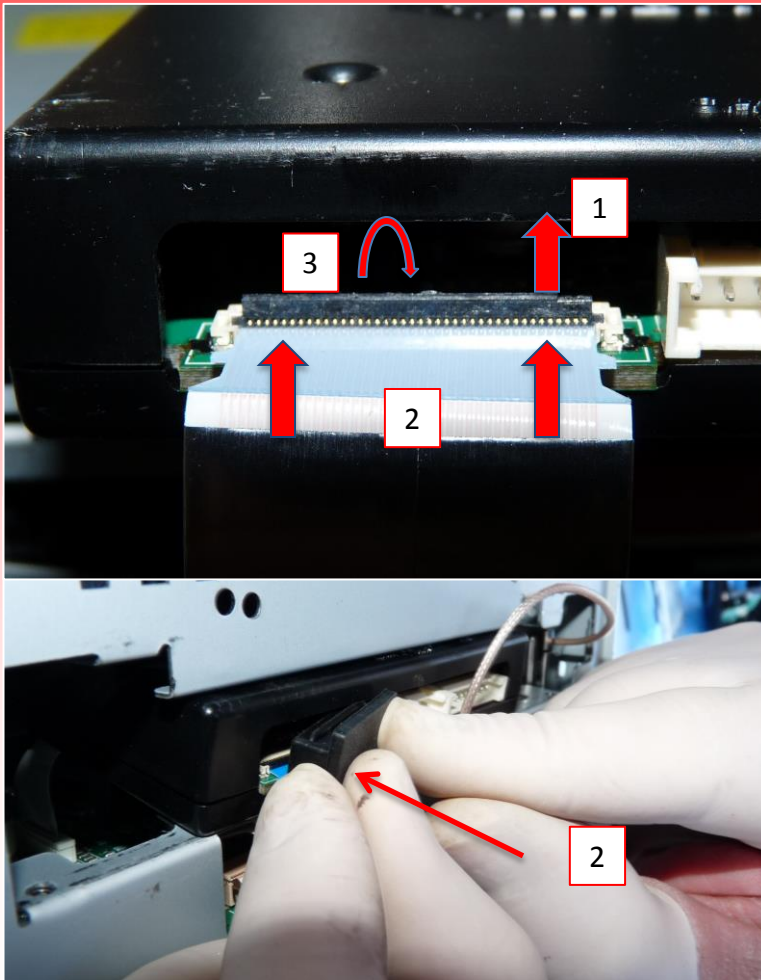


Screw the CD player in place using the **top** holes with the small screws reserved separately.

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1- The **black** locking tab in the TRIP module is carefully lifted to allow the ribbon cable to be installed into the TRIP module.

2- The flat ribbon contacts (silver) need to be facing down (to make contact) and the blue needs to face up. The ribbon must be CAREFULLY but firmly pushed into the TRIP connector, ensuring it is parallel and has no bends or tears.

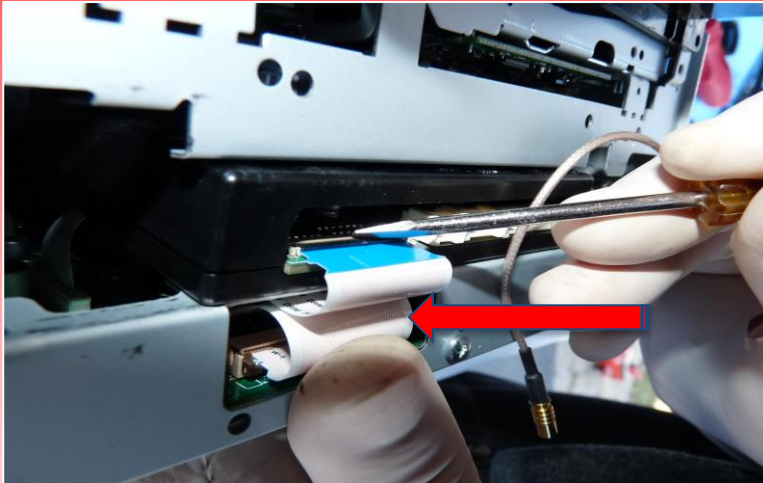
3- Then fold down gently the locking tab.

4- Then carefully install the rubber retainer, inserting the bottom piece first into place to ensure the locking tab and therefore ribbon cable does not disengage. **Caution: Make sure to insert the bottom of the rubber block first otherwise the locking tab may fold back and brake. If the locking tab is broken; stop the installation immediately and contact support.**

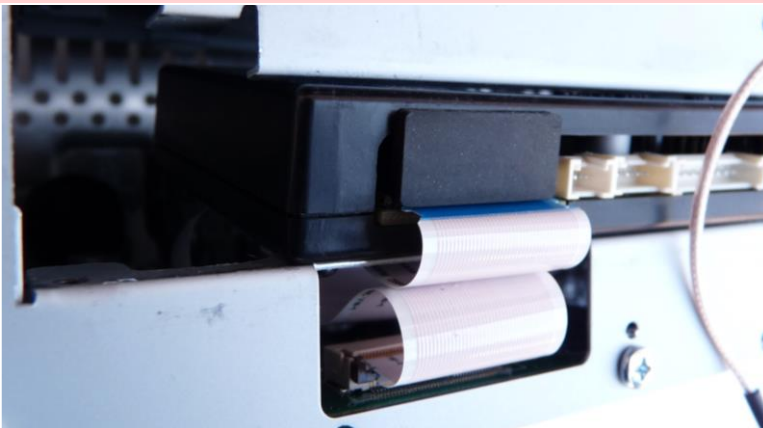
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The protruding curve of the ribbon cable must be CAREFULLY eased back into the radio unit (under the TRIP module), use just enough pressure to push into the radio.



Completed TRIP module ribbon cable installation.

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You have successfully retrofitted your
factory radio!

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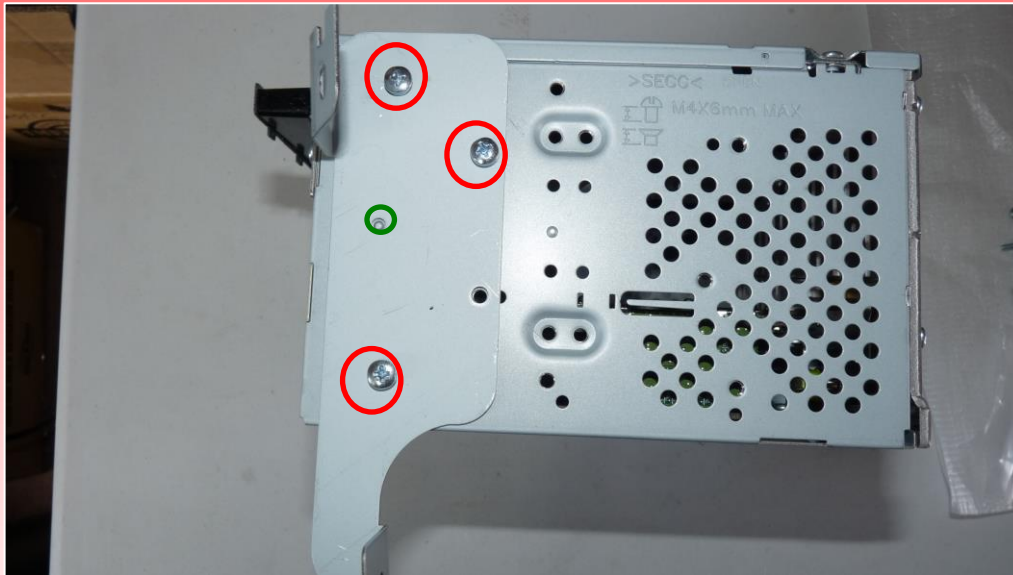
Section 8

Radio Bracket installation

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You have successfully prepared your radio.

Attach the supplied replacement dash mounting brackets to the side of the radio using the screws reserved previously. Check the alignment dimples (**GREEN circle**) to locate the brackets correctly. Thread length of the screws are long enough to secure the radio properly.

NOTE – Look at the orientation of the brackets, the inner radius is at the bottom. Repeat for the other side of the radio.

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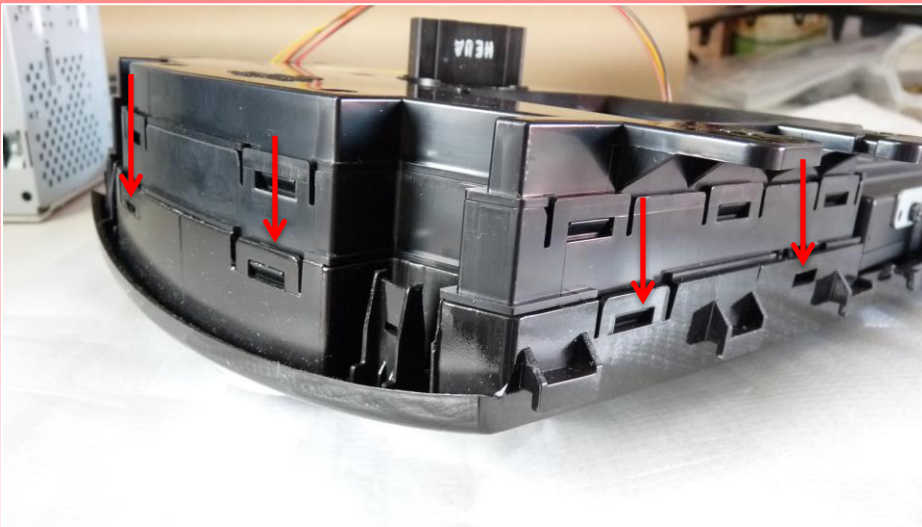
Section 9

Fascia Trim Preparation

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To prepare the new fascia for installation some components from the old factory one need to be removed.

Unclip the factory fascia from the A/C control module as shown (8 clips to release, 2 on each side)

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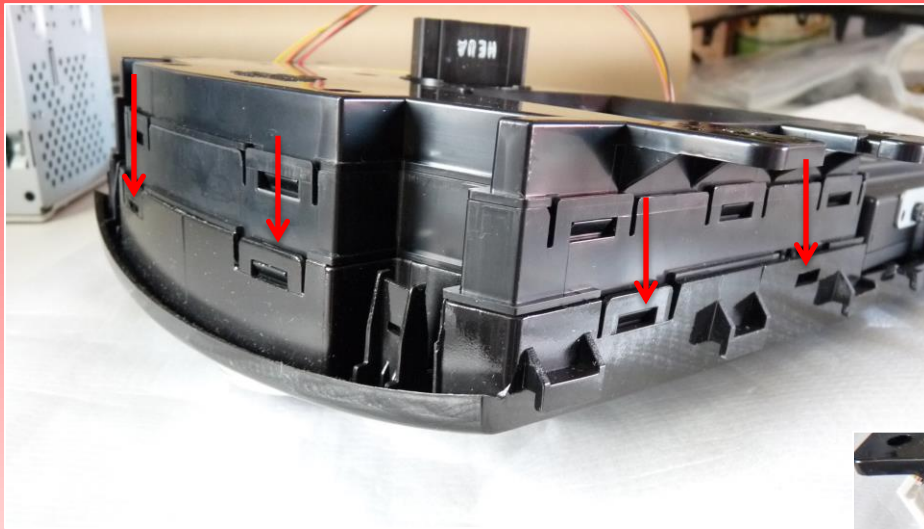


2 clips shown at the top of the A/C control module. Using 2 or more screw drivers is great help!

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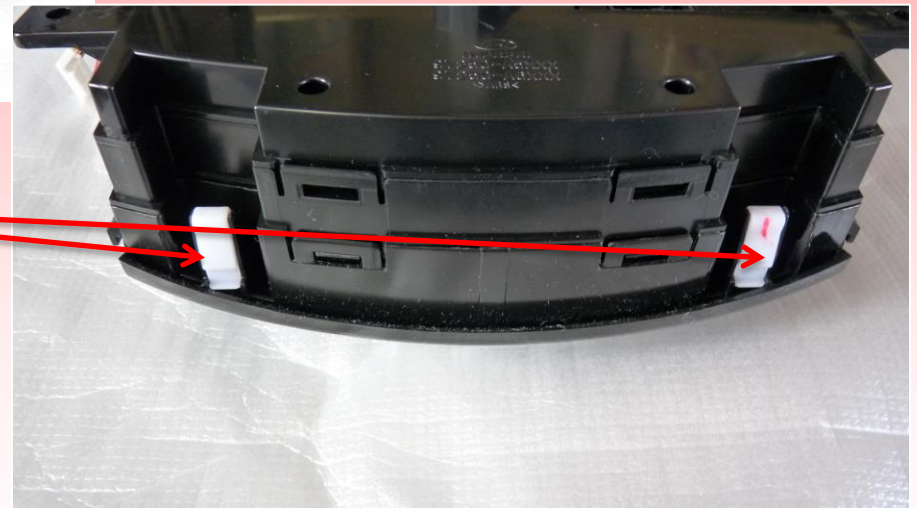
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Transfer the A/C control module to the new supplied fascia and snap in place properly.

Also transfer the 2 white retaining clip as shown.



You have successfully prepared the new fascia!

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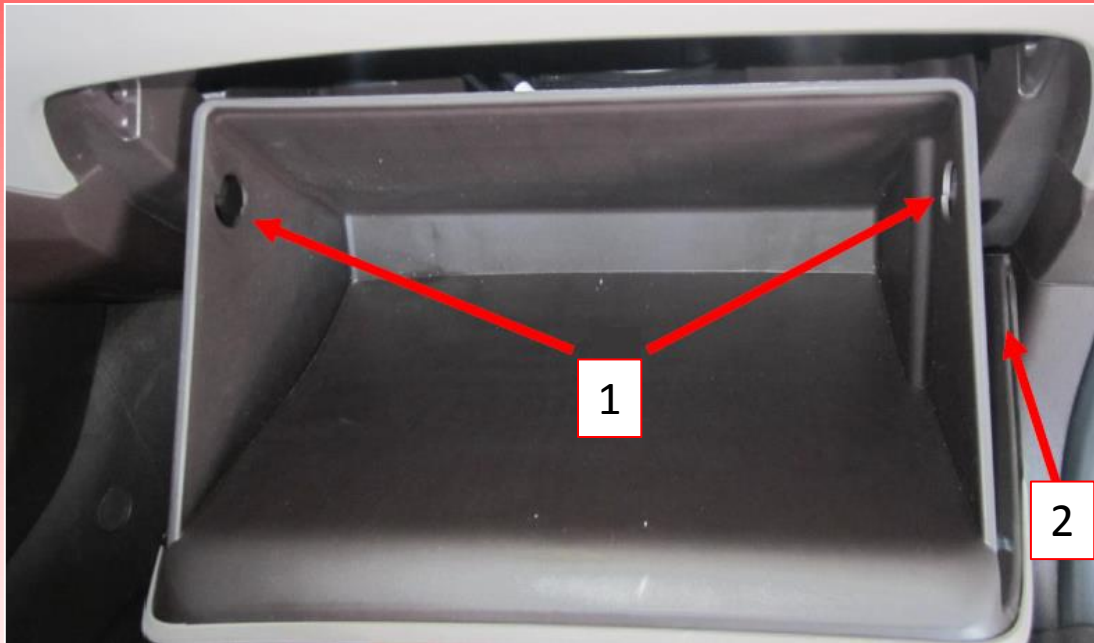
Section 10

Glove Box Preparation

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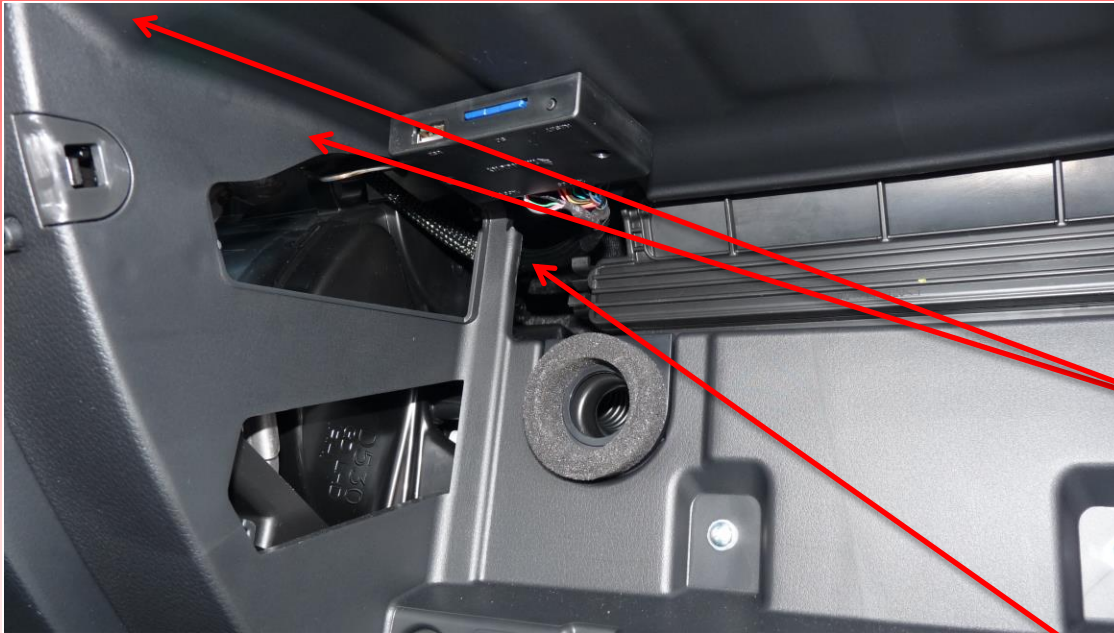
Open the glove box and rotate the guides (1) and remove them.

Disconnect the cylinder (2) to completely release the glove box.

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Route the External Media Storage connector under the radio location.

Peel the red tape from the double face tape and affix as shown.

Leave approximately 1" from the Media box to the left inner wall and 3" from the face.

Secure the storage cord beside the air filter box.

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Trim the top of the glove box to clear the Storage box.

You are done!

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Section 11

Electrical/Wiring

Connections

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Installation manual

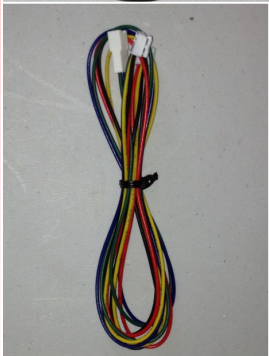
Caution – Documentation is an aid to successful installation. No liability is assumed for incorrect installation. If unsure of expertise required, please consult a qualified installation tech.

In the following section we will:

- Prepare the radio patch cable and attach to the car & radio connectors
- Attach the clock / temp patch cable to the car harness and clock module
- Secure the clock module underneath the radio



Aux
cable



TRIP Serial
cable

Audio Patch
Cord



Hyundai Elantra GT 2012-up CN-M5

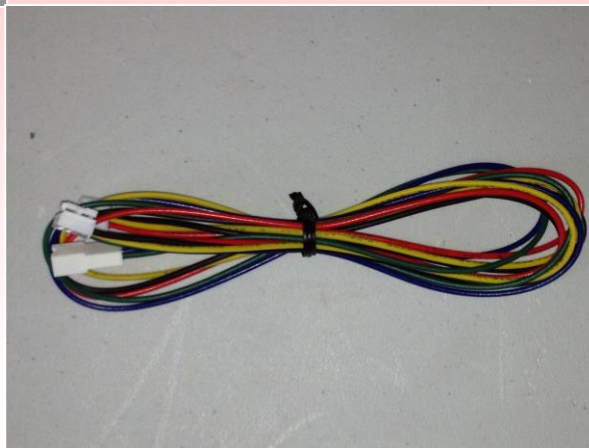
Installation manual

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Attach the TRIP Serial cable 2 Pin connector to this connector to the Audio Patch cord as shown.

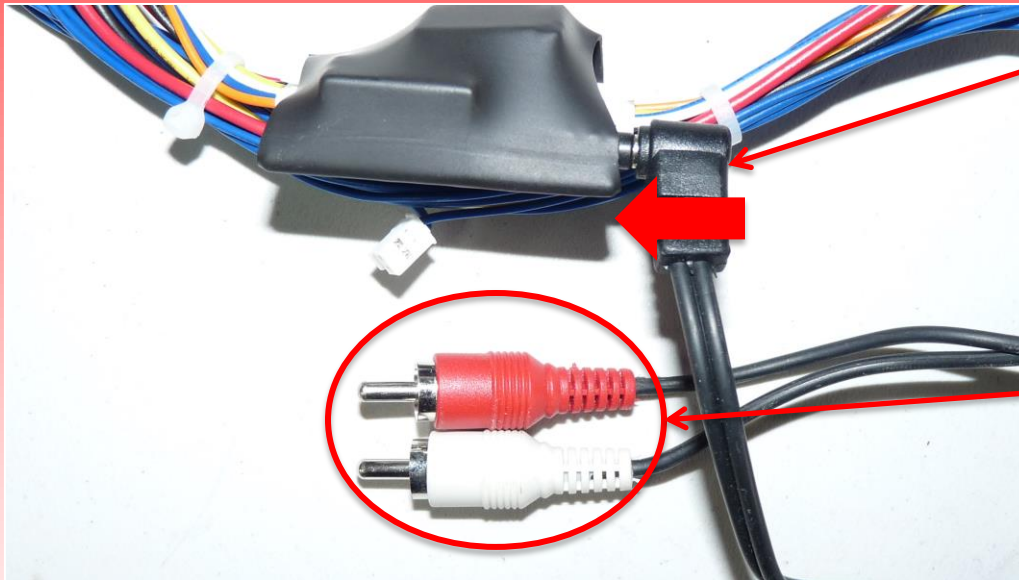
TRIP Serial cable



Hyundai Elantra GT 2012-up CN-M5

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Attach the AUX cable male jack into the female of the Aux switcher board as shown. Secure in place with Electrical tape.

Reserve the White and RED RCA jack to be connected into the AUX cable from the MAIN I/O 1

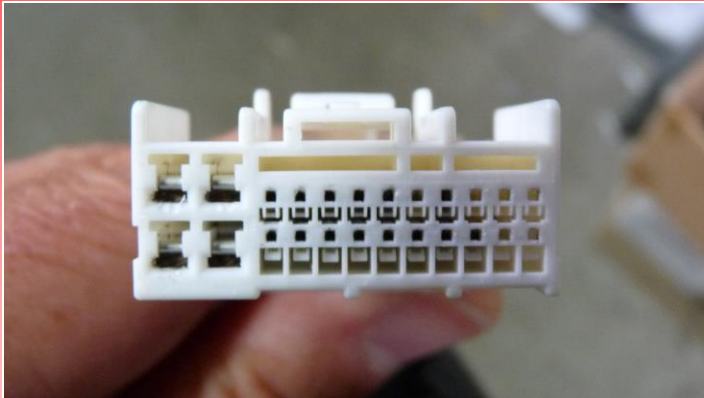
Aux
cable



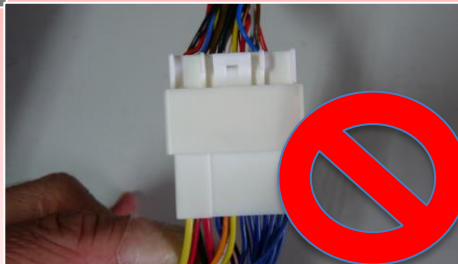
Hyundai Elantra GT 2012-up CN-M5

Installation manual

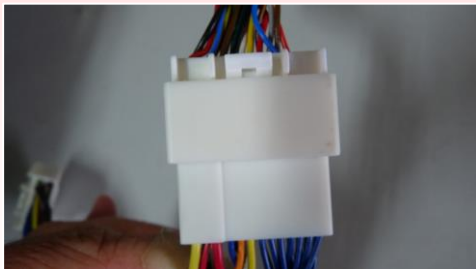
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Connect the Audio Patch cord to the car matching connector as shown.



Connectors improperly seated.

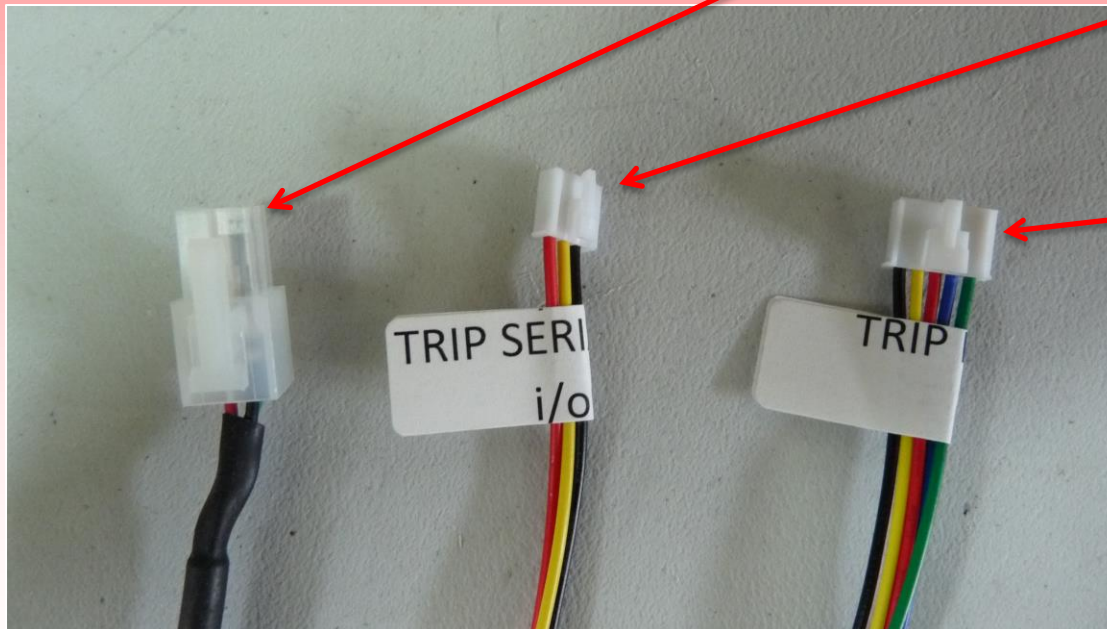


Connectors properly seated. You should hear a **CLICK**.

Hyundai Elantra GT 2012-up CN-M5

Installation manual

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Reserve the CN-M5 4 pins square connector for the final assembly.

Attach the TRIP SERIAL to the MAIN I/O 1 TRIP SERIAL. (Ref: P:11)

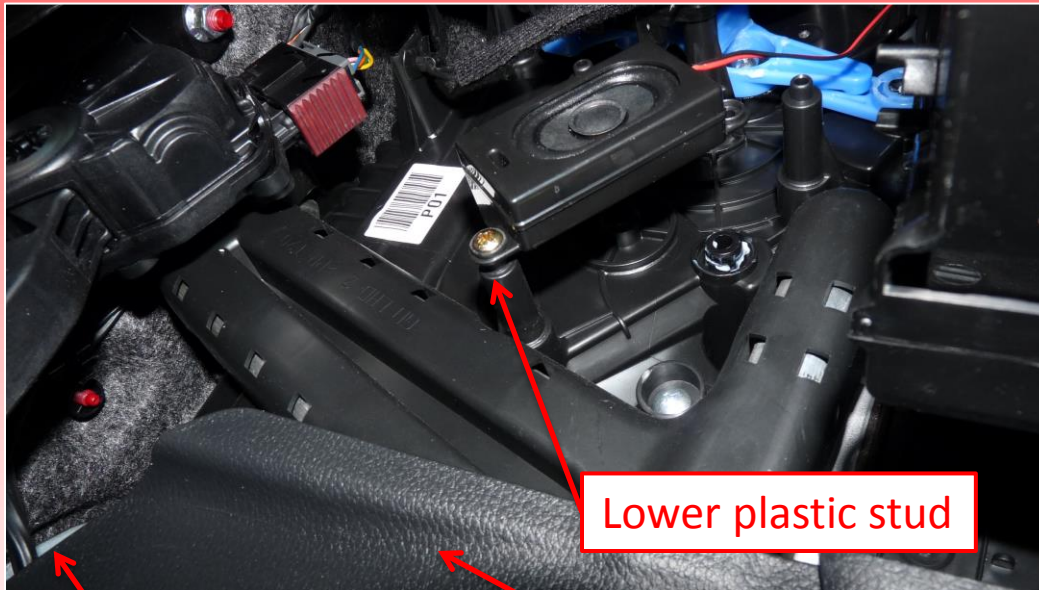
Reserve the TRIP MOD cable for the final assembly. It will be plugged in front of the trip module (Ref: P:11)

Hyundai Elantra GT 2012-up CN-M5

Installation manual

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Mini speaker installation



Lower plastic stud

Gas pedal

Driver side kick

The recommended placement of the mini-speaker is located on the driver side. Follow up the side kick near the gas pedal, locate the lower plastic stud. Using the provided screw, attach the mini – speaker using the stud center hole.

The speaker is very light and require only one screw. Once completed, bring the wire to the head unit for final install.

Hyundai Elantra GT 2012-up CN-M5

Installation manual

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Section 12

Installation into Vehicle

Hyundai Elantra GT 2012-up CN-M5

Installation manual

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Approximate location of GPS antenna
under the dashboard



Using the wrapping that came with the fascia, wrap the GPS antenna and squeeze tight between the dash board surface and the air duct.

“GPS” letters of the antenna should be towards the sky!

Testing has shown that signal is very good at this point. Route the GPS cable over the right air duct .

Hyundai Elantra GT 2012-up CN-M5

Installation manual

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IMPORTANT

Before proceeding to the final installation if you have purchased the following options, please proceed to their installation before completing the final assembly.

- | | |
|-------------------------|--------------------|
| - Backup Camera | Appendix 1 page 75 |
| - Parking Assist System | Appendix 2 page 78 |
| - RDS Traffic Tuner | Appendix 3 page 81 |

Hyundai Elantra GT 2012-up CN-M5

Installation manual

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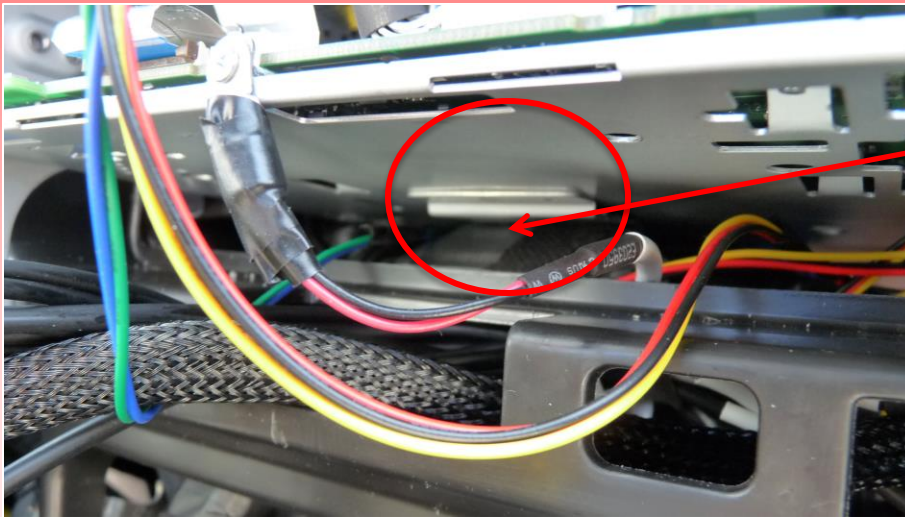
Prior to assembly of the trim to the car, please make sure you have at least the following connected properly .

- **GPS Antenna to GPS Serial of MAIN I/O 1**
- **TRIP SERIAL cable to TRIP Serial of MAIN I/O 1**
- **Mini Speaker to SPK of MAIN I/O 1**
- **AUX cable to AUX of MAIN I/O 1 (AUX should have been connected to factory AUX Audio Switcher at this point).**
- **OPTION**
- **CAMERA to CAMERA of MAIN I/O 1**
- Audio Video Extension cord to AVIN of MAIN I/O 1 for external multimedia player
- Audio Video Extension cord to AVOUT of MAIN I/O 2 for read seat screen and sound
- IR Receiver for Infrared remote of MAIN I/O 2
- TMC cable to TMC Traffic receiver of MAIN I/O 2

Hyundai Elantra GT 2012-up CN-M5

Installation manual

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Before placing the radio into its location; keep in mind where the radio will sit deeper and higher than before. The radio bottom support, shown here, will not engage into the dash support.

Apply electric tape on top of the support to avoid vibration.

Hyundai Elantra GT 2012-up CN-M5

Installation manual

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After ensuring all cables are correctly brought through to area beneath radio, attach:

- **FM Radio antenna**
- **XM antenna**
- **Multi-way connectors (2)**
- **Audio Patch cord goes into the first spot.**

And install radio in dashboard. If the radio does not fit well in place, make sure there is no unnecessary cables and ensure they are well placed under the radio.

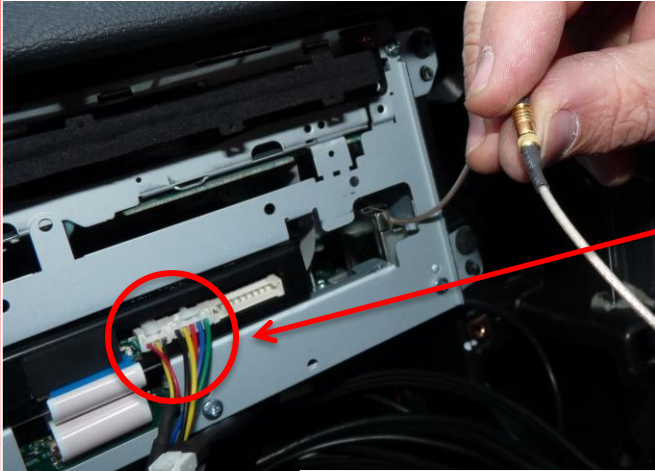
Affix using the screws removed earlier.



Hyundai Elantra GT 2012-up CN-M5

Installation manual

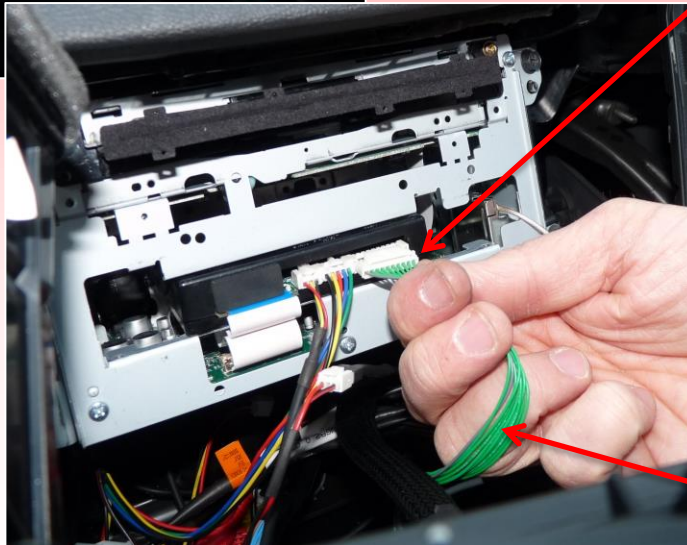
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Prior installing the fascia, connect the TRIP cable to the TRIP module as indicated (5 PINS) and **Parking Assist System cable (3 PINS)** if purchased.

Getting ready to attach the new fascia trim, connect:

- Keypad cable to the TRIP module . (Y,Or,R,Br,Blk)
- External media box (SD Card/USB)
- Main I/O 1
- Main I/O 2 (If needed)
- Air controls connectors (3)
- CN-M5 Power (4 PINS square)



Keypad cable color for GT is different

Hyundai Elantra GT 2012-up CN-M5

Installation manual

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Everything is connected here!

Hyundai Elantra GT 2012-up CN-M5

Installation manual

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Install the facia temporarily in place and plug back the wires to the battery and test run the CN-M5 navigator.

Prior final assembly, test the following:

- Radio mode (TRIP): FM, XM, USB, AUX, CD Steering Wheel Controls and Voice Commands, etc... ALL functions supported by the factory radio.
- Facia keypad
- Navigation: Check for GPS reception (at least configure the basic settings on start-up)
- MP3 Player: See if you can select music from the File folder (refer to User Manual. Connect a USB thumb drive to the External Media box prior testing)

Once completed, you can proceed with the final assembly. Screw in place the new trim (2) Put back the remaining trim pieces.

Hyundai Elantra GT 2012-up CN-M5

Installation manual

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Place fascia carefully making sure you're not pinching or sharp bending any wires.

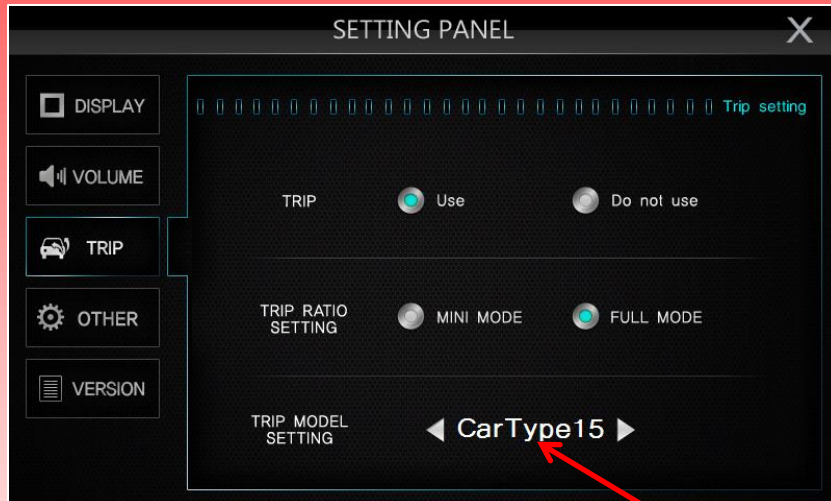
Align the fascia and snap the plastic clips to their holes. Press firmly the trim surrounding to snap the clips starting from the top. Then carefully move the next clips and apply firm pressure. Make sure the CD slot is properly aligned with the trim slot and look for apparent gaps.

Screw in place the 4 screws retaining the fascia.

Hyundai Elantra GT 2012-up CN-M5

Installation manual

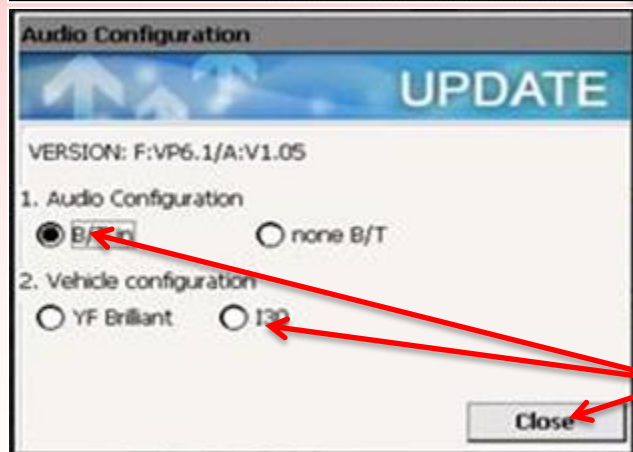
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For proper radio operation, the correct car type needs to be selected.

Go into the CN-M5 Setting Panel, Select TRIP and at the bottom change accordingly as below.

Failing to do this may result in a **TRIP.DLL FAILED TO LOAD** message.



Elantra GT – CAR TYPE 26

For Elantra GT 2012+ : Tick both selections as shown then close

Hyundai Elantra GT 2012-up CN-M5

Installation manual

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YOU DID IT!



Hyundai Elantra GT 2012-up CN-M5

Installation manual

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Hyundai Elantra GT 2012-up CN-M5

Installation manual

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Appendix 1

Reverse Camera

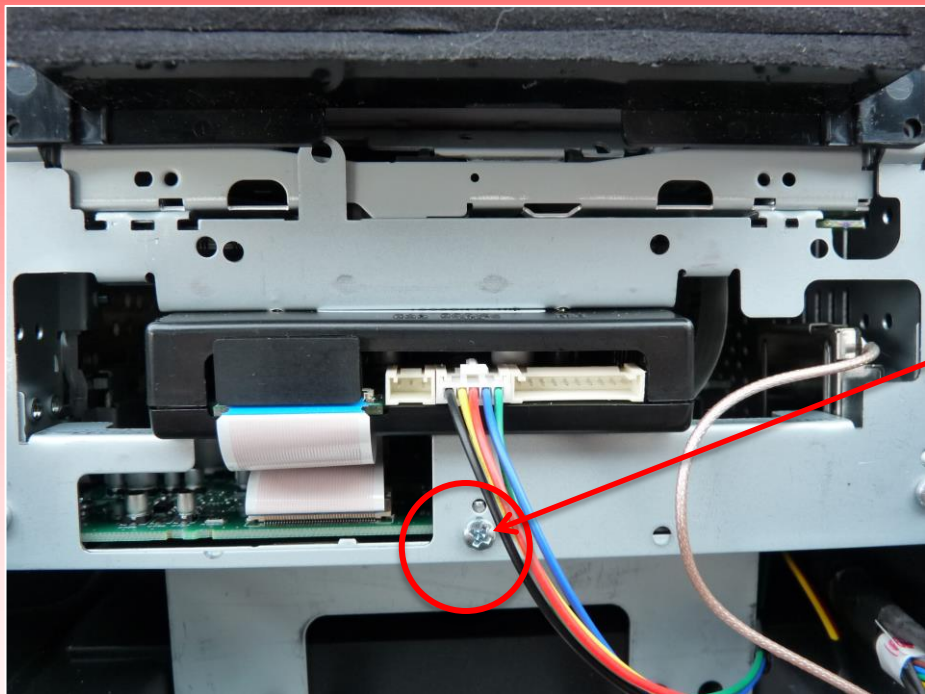
Installation

Hyundai Elantra GT 2012-up CN-M5

Installation manual

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Appendix 2: Backup Camera install

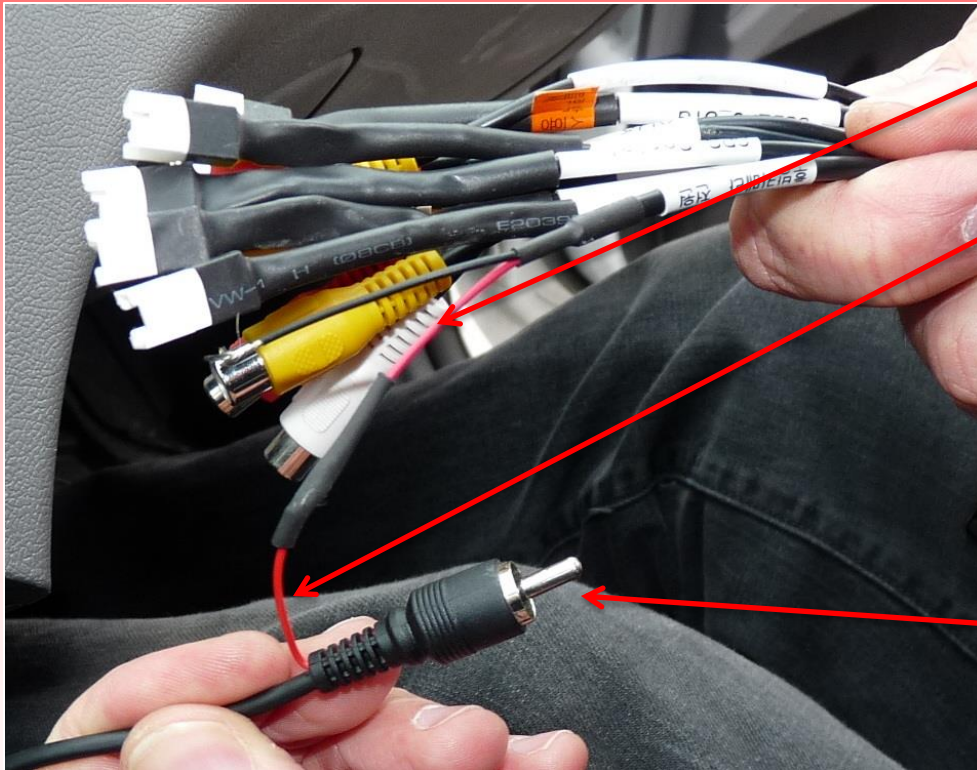


Attach the **BLACK** wire from MAIN I/O 1 “**REAR PWR**” to the radio front bottom screw as shown (**Ground**) .

Hyundai Elantra GT 2012-up CN-M5

Installation manual

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Attach the RED wire from MAIN I/O 1 “**REAR PWR**” to the backup camera RED wire.

Plug the back up camera RCA jack into the same Yellow Camera jack of MAIN I/O 1

Hyundai Elantra GT 2012-up CN-M5

Installation manual

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Appendix 2

Parking Assist

Hyundai Elantra GT 2012-up CN-M5

Installation manual

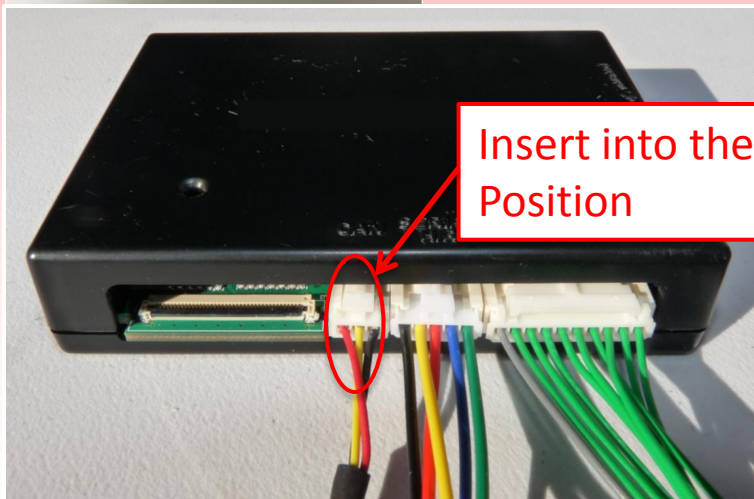
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Appendix 3: Parking Assist System



OBD II Connector

Connection of the Parking Assist System is very simple.



Insert into the "CAN" Position

Plug the other end into the Trip Module as shown

Hyundai Elantra GT 2012-up CN-M5

Installation manual

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Plug the Parking Assist connector into the car's OBD located right underneath the driver crash pad in the middle. Once inserted, lock it in place by moving the yellow tab until you hear a "click".

Note: Please advise your dealer about this sensor and how to proceed to remove it.

Hyundai Elantra GT 2012-up CN-M5

Installation manual

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Appendix 3

RDS Traffic Tuner

Hyundai Elantra GT 2012-up CN-M5

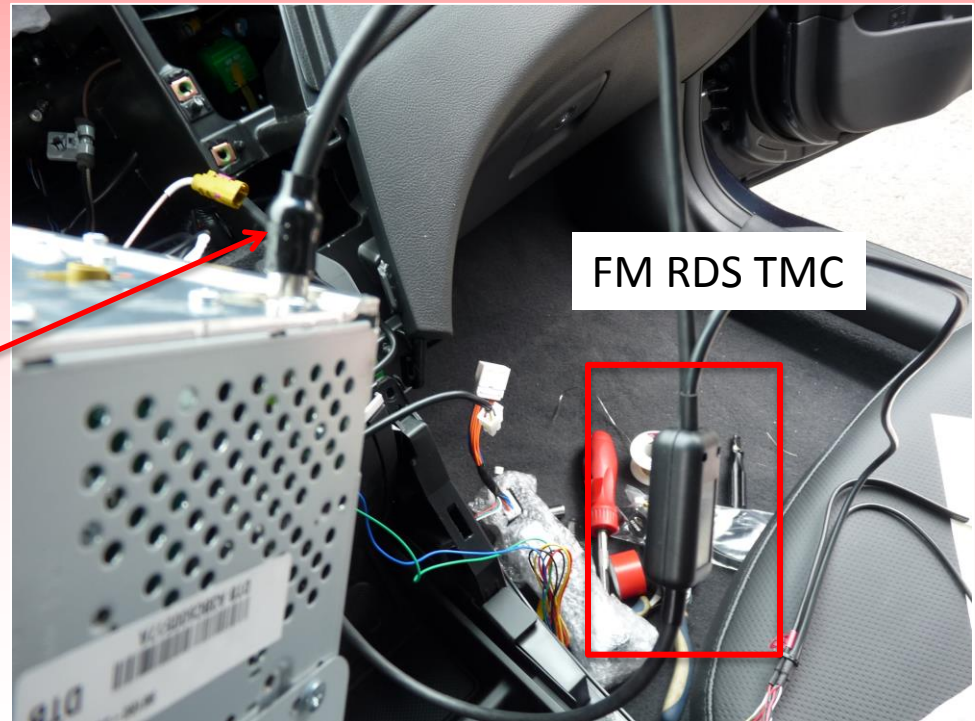
Installation manual

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Connect the male TMC FM adapter to the back of the radio. Reserve the white connector **MAIN I/O 2** for the final assembly.

Connect the female TMC FM adapter to the car male.



Hyundai Elantra GT 2012-up CN-M5

Installation manual

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Tips and tricks

To avoid over heating wire and connectors, it is recommended you use soldering acid Flux. This will greatly improve the quality of the soldering points. Before soldering, dip Into the acid flux paste the end of the soldering rod and apply a little flux to the wire section you wish to solder.

Hyundai Elantra GT 2012-up CN-M5

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END